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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/590,854	08/25/2006	Tadayuki Isaji	0171-1300PUS1	4134
	7590 08/10/200 ART KOLASCH & BI	EXAMINER		
PO BOX 747		PAK, HANNAH J		
FALLS CHURCH, VA 22040-0747			ART UNIT	PAPER NUMBER
		1796		
			NOTIFICATION DATE	DELIVERY MODE
			08/10/2009	ELECTRONIC

# Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

mailroom@bskb.com

		Applicat	tion No.	Applicant(s)			
Office Action Summary		10/590,		ISAJI ET AL.			
		Examine	er	Art Unit			
		Hannah	Pak	1796			
Period fo	The MAILING DATE of this communica	tion appears on ti	he cover sheet with th	e correspondence a	ddress		
A SH WHIC - Exter after - If NC - Failu Any r	ORTENED STATUTORY PERIOD FOR CHEVER IS LONGER, FROM THE MAIL asions of time may be available under the provisions of 3 SIX (6) MONTHS from the mailing date of this communic period for reply is specified above, the maximum statute to reply within the set or extended period for reply will, eply received by the Office later than three months after ad patent term adjustment. See 37 CFR 1.704(b).	LING DATE OF T 7 CFR 1.136(a). In no e cation. by period will apply and by statute, cause the ap	THIS COMMUNICATI event, however, may a reply be will expire SIX (6) MONTHS fr oplication to become ABANDO	ON. timely filed om the mailing date of this NED (35 U.S.C. § 133).	·		
Status							
2a)⊠	Responsive to communication(s) filed of This action is <b>FINAL</b> . 2b) Since this application is in condition for closed in accordance with the practice	☐ This action is allowance excep	ot for formal matters, ¡		ne merits is		
Dispositi	on of Claims						
5)□ 6)⊠ 7)□ 8)□ <b>Applicati</b> 9)□	Claim(s) 1-12 is/are pending in the app 4a) Of the above claim(s) is/are valued.  Claim(s) is/are allowed.  Claim(s) 1-12 is/are rejected.  Claim(s) is/are objected to.  Claim(s) are subject to restriction  on Papers  The specification is objected to by the E  The drawing(s) filed on is/are: ag  Applicant may not request that any objection	withdrawn from c n and/or election ixaminer. ो⊟ accepted or b	requirement. o)□ objected to by th				
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority ι	ınder 35 U.S.C. § 119						
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>							
2)  Notic 3) Inform	t(s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO- nation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date	-948)	4) Interview Summa Paper No(s)/Mail 5) Notice of Informa 6) Other:	Date			

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#### **DETAILED ACTION**

1. All outstanding rejections, except for those maintained below, are withdrawn in light of applicants' amendment/remarks filed on 05/01/2009.

- 2. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior office action.
- 3. No new grounds of rejection are set forth below. Thus, the following action is properly made final.

## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

4. Claims 1-12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Jonas et al. (US 2002/0173579) in view of Admitted Prior Art (Page 6, Paragraph 10 of the specification) or Wessling et al. (US 5,567,355).

The rejection is adequately set forth in Pages 2-4 of Office action mailed on 02/02/2009 and is incorporated here by reference.

#### Response to Arguments

5. The applicants' remarks filed 05/01/2009 are fully considered but are not found persuasive. Specifically, the applicants argue that Jonas fails to teach the inventive

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deioinizing step by the passing liquid and relies on Example 1 of Jonas as support (see Page 2 of the Applicants' Remarks).

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However, Jonas et al. disclose a process for the preparation of dispersions or solutions suitable for the production of rechargable batteries, light-emitting diodes, electrochromic windows, cathode ray tubes, and antistatic coatings (Paragraphs 1, 3, and 82). The process involves 1) preparing an aqueous suspension containing polythiophene+An-lon complex (polythiophene+ is a polymer), which is subjected to both anion and cation exchangers (method of deionization), and membrane method, such as ultrafiltration, 2) adding an organic solvent, such as N-methylpyrrolidone, alcohols, and ethers, to the aqueous suspension, 3) at least some of the water is removed from the resultant mixture, and 3) the mixture can be further diluted with other types of organic solvents, including aliphatic alcohols, e.g. n-propanol or isopropanol, and aliphatic ketones (see Paragraphs 34-50, 74, 78, 84 and 91). Moreover, step 1) of Jonas et al. involves anion and cation exchangers and then water is added, which is eventually removed. This method corresponds to the claimed deionizing step. Thus, those skilled in the art would have predicted the inventive method and the effect thereof form the disclosure of the cited references. In addition, the example pointed out by the applicants is not limited to the prior art of Jonas.

## Conclusion

6. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

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A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hannah Pak whose telephone number is (571) 270-5456. The examiner can normally be reached on Monday - alternating Fridays (7:30 am - 5 pm).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Vasu Jagannathan can be reached on 571-272-1119. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Hannah Pak Examiner Art Unit 1796

/HP/

/Vasu Jagannathan/ Supervisory Patent Examiner, Art Unit 1796